

Customer ID: 04206Z Account ID: Z00372 Lab Control ID: 19F01554 Received: Sep 16, 2019 Reported: Oct 07, 2019 Purchase Order No. None Received

Kevin Lawrence Desert View Power, Inc. 62-300 Gene Welmas Drive Mecca, CA 92254-0758

ANALYTICAL REPORT

Report may only be copied in its entirety.
Results reported herein relate only to discrete samples submitted by the client. Hazen Research, Inc. does not warrant that the results are representative of anything other than the samples that were received in the laboratory

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Mark A. Pugh Fuel Laboratory Manager



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ANALYTICAL REPORT

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Customer Sample ID	Boiler Fuel Feed 9/10/19
Lab Sample ID	19F01554-001
pH of a 25% Mixture	6.46

Bv:

Mark A Pugh

Fuel Laboratory Manager



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ANALYTICAL REPORT

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Customer Sample ID Lab Sample ID		Boiler Fuel Feed 9/10/19 19F01554-001	
Sodium in Ash as Na2O	%	2.20	
Potassium in Ash as K2O	%	3.72	
Chlorine in Ash	%	0.60	
Carbon Dioxide in Ash	%	0.42	

By:

Mark A Pugh

Fuel Laboratory Manager

The sample was ashed at 600 degrees celsius prior to analysis.

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Customer ID: 04206Z Account ID: Z00372 ANALYTICAL REPORT

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Client Sample ID Boiler Fuel Feed 9/10/19

Lab Sample ID 19F01554-001

Reporting Basis >	As Rec'd	Dry	Air Dry	
	AS NEC U	Ыу	All DIY	
Proximate (%)				
Moisture Ash Volatile Fixed C Total	21.54 10.98 53.79 13.69 100.00	0.00 13.99 68.55 17.46 100.00	4.82 13.32 65.25 16.61 100.00	
Sulfur Btu/lb (HHV) Btu/lb (LHV) MMF Btu/lb MAF Btu/lb	0.145 5660 5056 6419	0.185 7215 6727 8498 8389	0.176 6867	
Ultimate (%)				
Moisture Carbon Hydrogen Nitrogen Sulfur Ash Oxygen* Total	21.54 34.60 4.13 0.60 0.145 10.98 28.00	0.00 44.11 5.26 0.76 0.185 13.99 35.69	4.82 41.98 5.01 0.72 0.176 13.32 33.97	
Chlorine**	0.208	0.265	0.252	
Air Dry Loss (%) Forms of Sulfur, as S, (Sulfate Pyritic Organic	(%)	17.57	Lb. Alkali Oxide/MM Btu = Lb. Ash/MM Btu= Lb. SO2/MM Btu= Lb. Cl/MM Btu= F-Factor(dry),DSCF/MM Btu=	1.15 19.40 0.513 0.37 9,763
Total	0.145	0.185	Report Prepared By:	
Water Soluble Alkalies	(%)		Mapp	
Na2O K2O	0.094 0.293	0.120 0.374	Mark A Pugh	

^{*} Oxygen by difference

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^{**} Not usually reported as part of the ultimate analysis.



Hazen research Inc.

4601 Indiana St. Golden Co. 80403

Tel: (303) 279 - 4501 Fax: (303) 278 - 1528

SAMPLE SUBMITTAL FORM

Sample Identi	fication BOILER FUEL FEED Date	1-10-10
X Ultir	mate, Proximate, & BTU	
Ultin		
Prox	imate	
Mois	ture	
Ash		
Sulfu	r	
Calor	ific Value. BTU / lb	
X Chlori	ne	
Eleme	ental Analysis of ash (Si, A1, Ti, Fe, Ca, Mg, Na, K,	D 0
X Chlorin	ne in ash	P, S as oxides)
X Carbon	n Dioxide in ash	
Fusion	temperatures of ash (oxidizing & reducing)	
X Water s	soluble alkalis (Na2O & K2O)	
	soluble calcium (CaO)	
X Alkali, L	bs / MMBTU (Need Na2O & K2O in ash If Element	
Sodium	in ash (Na2O)	ai is not run)
Potassiu	ım in ash (K2O)	
Submit samples to	•	
Hazen research, Inc.		Reports & Billing to:
Attn: Gerard H Cunningham 4601 Indiana St. Golden, Colorado 80403		Colmac Energy, Inc. Paula Bates Po Box 758 Mecca, Ca. 92254- 0758

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